21 When implementing linear regression of some dependent variable on the set of independent variables = $(1, \dots, 1)$ , where is the number of predictors, which of the following statements will be true?	
<ul> <li>a) 0, 1, ···, are the regression coefficients.</li> <li>b) Linear regression is about determining the best predicted weights by using the method of the control of</li></ul>	c

- **ordinary least squares**. **C)** E is the random interval
- d) Both and b

Answer – (D) Both and b

22 )What indicates that you have a **perfect fit** in linear regression?

```
a) The value ^2 < 1, which corresponds to SSR = 0
```

- b) The value  $^2 = 0$ , which corresponds to SSR = 1
- c) The value  $^2 > 0$ , which corresponds to SSR = 1
- d) The value  $^2 = 1$ , which corresponds to SSR = 0

Answer –(D) The value  $^2 = 1$ , which corresponds to SSR = 0

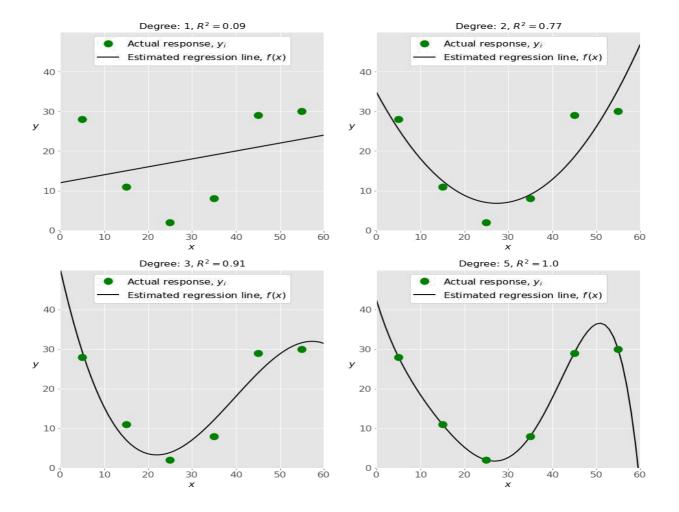
23)In simple linear regression, the value of **what** shows the point where the estimated regression line crosses the axis?

- a) Y
- b) B0
- c) B1
- d) F

Answer- (B) B0

24)

Check out these four linear regression plots:



Which one represents an **underfitted** model?

- a)The bottom-left plot
- b) The top-right plot
- c) The bottom-right plot
- d) The top-left plot

Answer- (D) The top-left plot

25)

There are five basic steps when you're implementing linear regression:

- a. Check the results of model fitting to know whether the model is satisfactory.
- **b.** Provide data to work with, and eventually do appropriate transformations.
- **c.** Apply the model for predictions.
- **d.** Import the packages and classes that you need.
- e. Create a regression model and fit it with existing data.

However, those steps are currently listed in the wrong order. What's the correct order?

	d, e, c, b, a d, b, e, a, c
Answe	r-(D) d,b,e,a,c
26 ) W	hich of the following are optional parameters to LinearRegression in scikit-learn?
b) c) d) e) f)	Fit fit_intercept normalize copy_X n_jobs reshape r-(b)fit intercept (c) normalize (d) copy X (e) n jobs
	nile working with scikit-learn, in which type of regression do you need to transform the array its to include nonlinear terms such as <sup>2</sup> ?
a)Mult	iple linear regression
b) Sim	ple linear regression
c) Poly	nomial regression
Ans	wer-(c) Polynomial regression
28) Yo	u should choose statsmodels over scikit-learn
when:	A)You want graphical representations of your data.
b) You	're working with nonlinear terms.
c) You	need more detailed results.
d) You	need to include optional parameters.
Answe	r-(c) You need more detailed results.
compre	is a fundamental package for scientific computing with Python. It offers thensive mathematical functions, random number generators, linear algebra routines, Fourier rms, and more. It provides a high-level syntax that makes it accessible and productive.
a) Pano	las
b) Nun	пру
c) Stats	smodel

a) e, c, a, b, db) e, d, b, a, c

d) Scipy		
Answer-(b) Numpy		
30) is a Python data visualization library based on Matplotlib. It provides a high-level interface for drawing attractive and informative statistical graphics that allow you to explore and understand your data. It integrates closely with pandas data structures.		

- a)Broke
- b)Seaborn
- a) Matplotlib
- b) Dash

Answer-(b) Seaborn